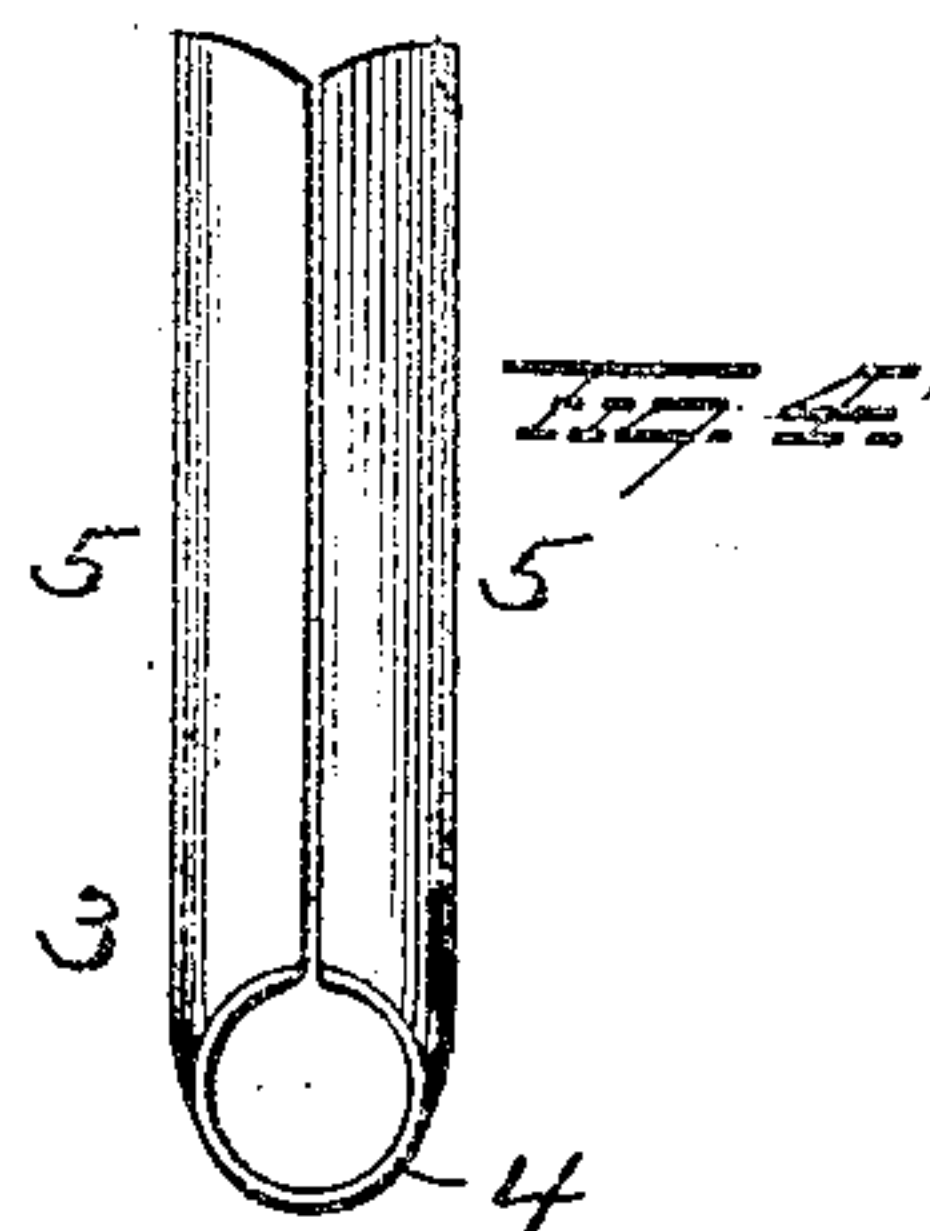
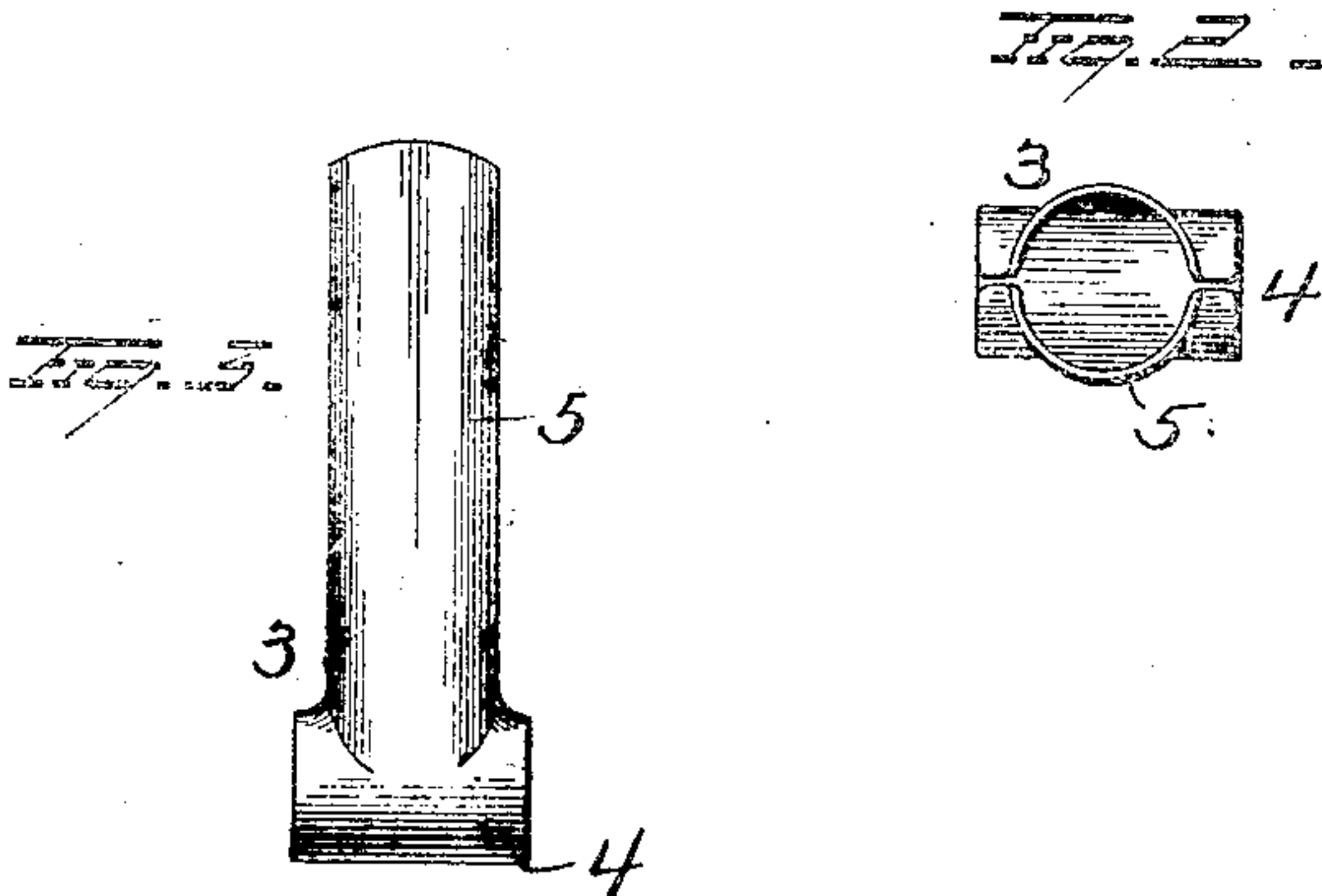
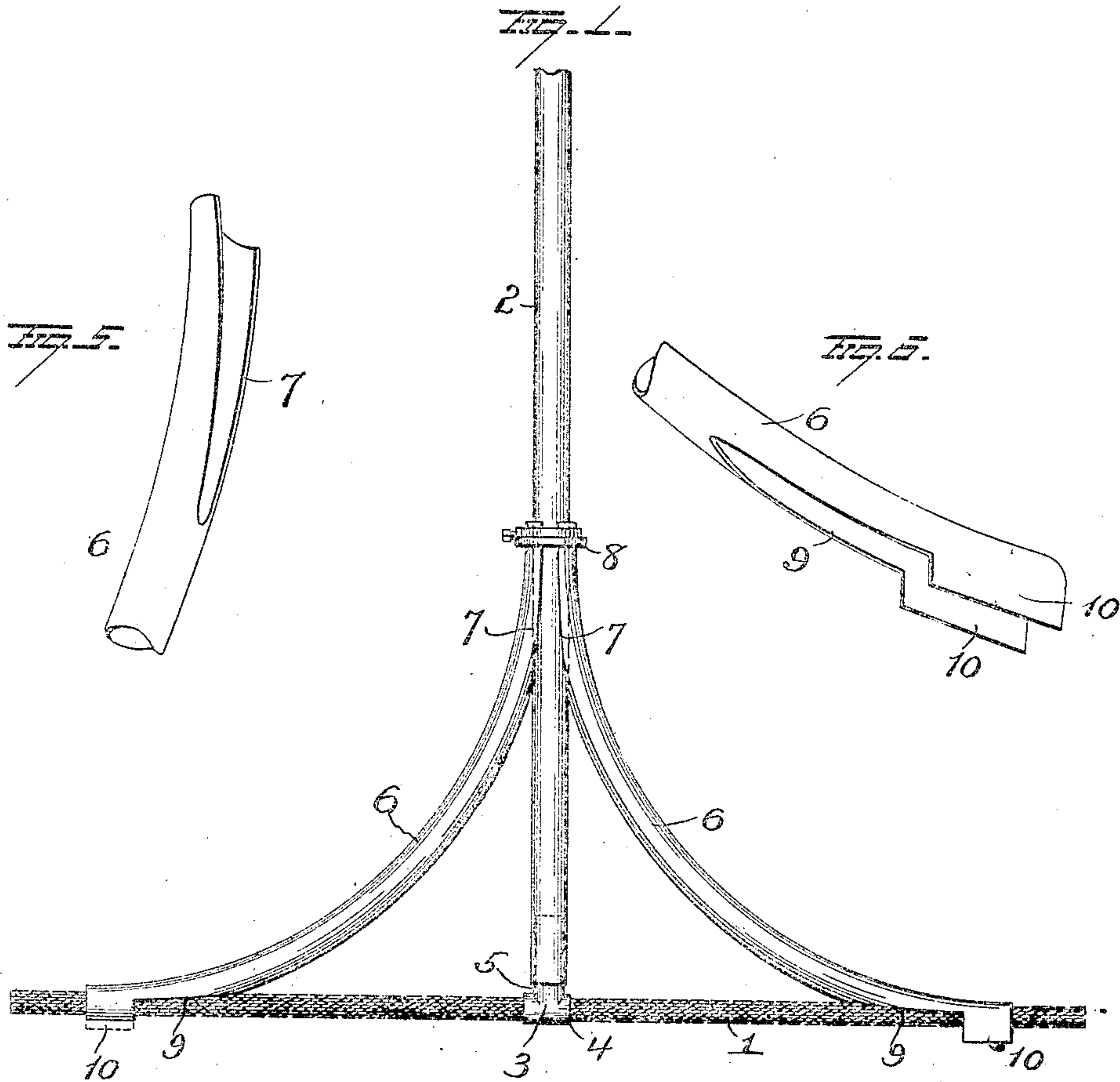


T. THOMPSON.
 LIGHTNING ROD CONSTRUCTION.
 APPLICATION FILED APR. 20, 1910.

963,830.

Patented July 12, 1910.



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THOMAS THOMPSON, OF BURLINGTON, IOWA.

LIGHTNING-ROD CONSTRUCTION.

963,830.

Specification of Letters Patent.

Patented July 12, 1910.

Application filed April 20, 1910. Serial No. 556,638.

To all whom it may concern:

Be it known that I, THOMAS THOMPSON, of Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Lightning-Rod Construction; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in lightning rod construction,—the object of the invention being to provide simple and efficient means for connecting that portion of the structure which carries the point or points with the horizontal cable or conductor.

With this object in view the invention consists in certain novel features of construction and combinations of parts as hereinafter set forth and pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation showing an embodiment of my invention. Figs. 2, 3 and 4 are detail views of the coupling which connects the upright member of the structure with the coupling, and Figs. 5 and 6 are detail views illustrating the brace-conductors.

1 represents a conducting cable with which the lower end of a tubular rod 2 is connected by means of a coupling 3. The coupling 3 is made of sheet metal (preferably copper) and is bent to form a sleeve 4 which embraces the cable 1, and arms 5 curved transversely and entering the lower end of the tubular rod 2. The coupling 3 is thus made to clamp the cable 1 and securely connect the same with the lower end of the post 2. The post or rod 2 being made tubular, is adapted for the insertion into its upper end of a suitable point or series of points not shown.

Braces 6—6, which also constitute conductors, are connected with the tubular rod some distance above the connection of the latter with the cable, and the lower ends of these braces are connected with the cable some distance from the connection between the latter and the tubular rod or post. Each brace 6 is made tubular and preferably curved as shown in Fig. 1. The inner portion of each brace 6 is cut away at its upper end as shown at 7 to permit said brace to

conform to the contour of the upright rod or post 2 and the two braces are secured to the rod or post 2 by means of a clamping collar 8 forced over their upper ends and said clamping collar may be further secured by means of a set screw if desired. The lower portions of the braces 6 are cut away on their under sides as shown at 9 for the accommodation of the cable 1 and that portion of each tubular brace below the cut away portion 9 is slit and the metal bent outwardly to form lugs or ears 10 which are made to embrace the cable 1 and provide a cheap and efficient means for connecting the braces with the cable both mechanically and electrically.

My improvements are simple in construction; can be cheaply manufactured; easily applied, and effectual in operation.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is,—

1. In a lightning rod structure, the combination with a conductor and a tubular member disposed at an angle thereto, and a coupling connecting the tubular member with said conductor, of tubular braces secured at their upper ends to the tubular member and provided at their lower ends with integral ears embracing said conductor and securing the braces thereto.

2. In a lightning rod structure, the combination with a conductor and a tubular member disposed at an angle thereto and connected therewith, of tubular braces having portions of the metal at their upper ends cut away to cause said upper portions of the braces to conform to the external contour of said tubular member, and a clamp for securing the upper ends of the braces to the tubular member, the lower portions of said braces being cut away for the accommodation of said conductor and provided with ears adjacent to said lower cut away portions to embrace said conductor.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

THOMAS THOMPSON.

Witnesses:

CHAS. C. CLARK,
MARY FAWCETT.